## 10/587912

## IAP5 Rec'd PCT/PTO 31 JUL 2006

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No. : Unassigned

Applicant : William Ogilvie

Filed :

Group Art Unit:

Examiner :

Docket No. : GJE-004

Customer No.:

021884

Title :

METHOD AND APPARATUS FOR THE MANUFACTURE OF

**ELECTRIC CIRCUITS** 

#### **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1. Enclosures accompanying this Information Disclosure Statement are:

1a.	$\boxtimes$	Form PTO-1449.
1b.		Copy(ies) of IDS citation(s), except for U.S. Patents and U.S. Patent Application publications for applications filed on or after June 30, 2003.
1.c.		English language copy of a communication(s) from a foreign Patent Office or a PCT International Search Report.
1d.		English language translation (complete, Abstract, or relevant portion(s)) attached to non-English language publications as indicated on the attached PTO Form PTO-1449.
1e.		Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of non-English publications.
1f.		List of Copending Applications (ATTACHMENT 1(f), hereto).

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	1g.		List of Additional Submitted Documents (ATTACHMENT 18), hereto). L 2006
2.	⊠This In	nformati	on Disclosure Statement is filed under 37 CFR § 1.97(b):  (Check either Item 2a or 2b or 2c or 2d)
	2a. 2b. 2c. 2d.		Within three months of the filing date of a national application; Within three months of the date of entry of the national stage as set forth in § 1.491 in an international application. Before the mailing of a first Office Action on the merits; or Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114.
3.	in para a Not applic	agraph 2 ice of A ation, A	ion Disclosure Statement is filed under 37 CFR § 1.97(c) after the period specified above but before the mailing date of any of a Final Office Action under § 1.113, allowance under § 1.311 or an action that otherwise closes prosecution in the ND to be checked if any reference known for more than 3 months).  The § 1.97 (e) Statement in Item 5 below is applicable; OR  The \$180.00 fee set forth in 37 CFR § 1.17(p) is:  ———————————————————————————————————
4.	□ This I in par 4a. 4b.	nformat agraph 3	ion Disclosure Statement is filed under 37 CFR § 1.97(d) after the period specified above, but on or before payment of the Issue Fee, AND  The § 1.97(e) Statement in Item 5 below is applicable; AND  The \$180.00 fee set forth in 37 CFR § 1.17(p) is:  ———————————————————————————————————
5.	☐ States	ment un	der § 1.97(e) (applicable if Item 3a or 4a is checked) (Check either Item 5a or 5b)
	5a.		In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
	5Ъ.		In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

## 10/587.912 PS Rec'd PCT/PTO 31JUL 2006

6.	☐ This	is a con	tinuation/division/continuation-in-part application under 37 CFR § 1.53(b).  (Check appropriate Items 6a and/or 6b).			
	6a.	П	Copies of the publications listed on the attached Form PTO-1449 which were			
	ou.	_	previously cited in prior application Serial No, filed on			
			and which is relied on for an earlier effective filing date for the			
			subject application under 35 U.S.C. § 120, have been omitted pursuant to 37			
			CFR § 1.98(d).			
	6b.		Copies of the publications listed on the attached Form PTO-1449 which were			
			not previously cited in prior application Serial No, filed on			
			, and which is relied on for an earlier effective filing date for the			
			subject application under 35 U.S.C. § 120, are provided herewith.			
7.	☐ This i	is a Req	uest for Continued Examination under 37 CFR § 1.114.  (Check either Item 7a or 7b)			
	7a.		The Issue Fee has not been paid.			
	7b.		A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently			
			herewith or has been granted. A Request for Continued Examination under 37			
			CFR § 1.114, after payment of Issue Fee, is proper in accordance with 37 CFR			
			§ 1.114(a), respectively.			
8.	☐ This is a Supplemental Information Disclosure Statement					
			(Check either Item 8a or 8b)			
	8a.		This Supplemental Information Disclosure Statement under 37 CFR § 1.97(f)			
			supplements the Information Disclosure Statement filed on A			
			bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent			
			omissions were made. These omissions have been corrected herein.			
			Accordingly, additional time is requested so that this Supplemental IDS can be			
	8b.		considered as if properly filed on  This Supplemental Information Disclosure Statement is timely filed within one			
	ob.		(1) month of the Notice under 37 CFR §§ 1.97 and 1.98, mailed			
			(1) month of the route under 57 Crrc yy 1.57 and 1.56, maned			
9.	$\boxtimes$	In ac	cordance with 37 CFR § 1.98, concise explanation of what is presently understood			
		to be	the relevance of each non-English publication is:			
			(Check appropriate Items 9a, 9b, 9c and/or 9d)			
	9a.	$\boxtimes$	satisfied for the non-English language publication(s) cited on the enclosed			
			"English language version of the search report or action which indicates the			
			degree of relevance found by the foreign office". (See MPEP § 609, Minimum			
			Requirements for an Information Disclosure Statement, Part A(3): Concise			
	•		Explanation of the Relevance, 8th Ed., Rev. 2)			
	9b.		set forth in the application.			
	9c.		satisfied for the non-English language publication(s) indicated on the attached			
			Form PTO-1449 as having an English language translation (complete or			
	UA		relevant portion(s)) attached thereto.			
	9d.	Ш	enclosed as Attachment (1(e), hereto.			

10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account 01-2221.

Respectfully submitted,

John L. Welsh

Registration No. 33,621

WELSH & FLAXMAN LLC 2000 Duke Street, Ste. 100 Alexandria, VA 22314 (703) 920-1122

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Art Unit

**Examiner Name** 

STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	0		3	Attorney	Docket Number	GJE-004
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			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (if known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 6074135	06/13/2000	Tapphorn et al.	
		<sup>US-</sup> 6139913	10/31/2000	Van Steenkiste et al.	
		<sup>US-</sup> 6402050	06/11/2002	Kashirin et al.	
		<sup>US-</sup> 5302414	04/12/1994	Alkhimov et al.	
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Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>
		EP1365637	11/26/2003	Delphi Technologies Inc.		
		DE10007981	11/02/2000	Yazaki Corp.		
		JP01084690	03/29/1989	Matsushita Electric Works		
		WO 00/43571	07/27/2000	Nikitin Peter Vasilievich		<b>V</b>
		WO 02/068245	09/06/2002	Leoni Bordnetz Systeme GM		1
		EP0484533	05/13/1992	Inst Teoreticheskoi		1

Examiner	Date	
Signature	Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IAP5 Rec'd PCT/PTO 3.1 JUL 2006

Approved for use through 09/30/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**GJE-004** 

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Application Number Unassigned

Filing Date

First Named Inventor William Ogilvie

Art Unit

(Use as many sheets as necessary)

Complete if Known 587912

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Filing Date

First Named Inventor William Ogilvie

Art Unit

Examiner Name

**Attorney Docket Number** 

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			U. S. PATENT D	OCUMENTS	
Examiner Initials*	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
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		FORE	IGN PATENT DOCL	JMENTS		
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T
		DE19502044	07/18/1998	Ickert Labs		<b>√</b>
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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INFORMA	TION DIS	CLOSURE	Filing Date			
		PPLICANT		William Ogilvie		
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Sheet 3	of	3	Attorney Docket Number	GJE-004		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		McCune RC et al., "Characterization of Copper Layers Produced by Cold Gas-Dynamic Spraying", JOURNAL OF THERMAL SPRAY TECHNOLOGY, Vol. 9, No. 1, March 2000 pgs. 73-82	
	<u> </u>	Date	

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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